

NASA Investigations (Cumulative)

ER 1, ER 2A, HRF-1, ER 4, ER 5, ER 3A, MSG, MELFI, WOLF, HRF-2

Increment 7: 3 new investigations; 15 continuing

27 months continuous U.S. Research time to date

74 investigations and 7 racks to date

UNDER REVIEW

10 Racks Projected by ULF-1

Legend:

- A = Active Rack Isolation System (ARIS)
- ER = EXPRESS Rack
- HRF = Human Research Facility
- MELFI = Minus Eighty-degree Lab Freezer for ISS
- MLE = Middeck Locker Equivalent
- MSG = Microgravity Science Glovebox
- WOLF = Window Observational Research Facility

	2A.2b (9/00)	7A (7/01)	7A.1 (8/01)	UF-1 (12/01)	8A (4/02)	UF-2 (6/02)	9A (10/02)	11A (11/02)	6S (4/03)	11P (6/03)	12P (8/03)	7S (10/03)	13P (11/03)	14P (1/04)	15P (3/04)	ULF-1 (10/03)	12A (10/03)	12A.1 (3/04)	13A (3/04)	13A.1 (6/04)	15A (6/04)	10A (9/04)
	Incrs 0-2	Incr 3	Incr 4	Incr 5	Incr 6	Incr 7	Incr 8	Incr/ULF1	Incr/12A.1	Incr/15A	Actual Totals (thru May 31 '03)											
Research Crew Time Total (US/Russian)	294 / 116	207 / 133	335 / 109	280 / 138	293 / 86	20 / 9.5 (251 / 69)	(292 / 42)	(378 / 54)	(297 / 42)	(532 / 76)	1429 / 591.5 hrs											
Avg Crew Time Per Work Week (US/Russian)	10.7 / 4.2	14.1 / 9.1	15.1 / 4.9	13.6 / 6.6	14.7 / 4.3	4.7 / 2.2 (11.0 / 3.0)	(11.7 / 2.1)	(23.9 / 3.4)	(14.9 / 2.1)	(21.4 / 3.1)	13.9 / 5.8 hrs (from Inc 3 to date)											
Research Rack Mass to Orbit (kg)	1600	895	0	1138	0	0 (0)	(0)	(2087)	(0)	(0)	3633 kg											
Research Resupply Mass to Orbit (kg)	1018	275	699	843	111	0 (0)	(0)	(412)	(1318)	(382)	2946 kg											
Research Supplies in Middeck (MLE)	12	8	18	15	6	0 (0)	(0)	(10.2)	(15)	(5)	59 MLE											
<p>Note: For space-saving purposes, all individual flight data above have been combined or averaged for Increments 0 through 2.</p> <p>(XXX) = most recent allocation for entire increment</p>																						

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ISS Research Accommodations Status

13 June 2003 (Data through 31 May 2003)



Definitions, Sources

U.S Research Investigations Accommodated

U.S. Investigator: The principal person selected or approved by NASA to conduct a research investigation on-board ISS.

Number of Investigations (Cumulative) and Total Number of Investigations to Date: The cumulative number of U.S.-sponsored investigations carried out on ISS to date. This number also includes any international investigations conducted within U.S.-provided accommodations as part of agreements with the ISS international partners. If an investigation requires experimentation on more than one increment, it is designated a continuous investigation and counted only once. The cumulative number is plotted at the date of each Shuttle flight to ISS, which is when new investigations are added.

Source: The Investigator Master List, maintained by the Lead Increment Scientist, provides the number per increment. The Increment Scientist also provides the cumulative number per Shuttle flight.

Increment Length: The time period that an expedition crew is on orbit. It is measured from their launch date to their ISS undock date, and is documented in the Increment Definition Requirements Document (IDRD) Flight Program Definition matrix.

Continuous U.S. Research Time to Date: The time that the U.S. Laboratory has been continuously supporting research investigations, not counting short-term stoppages lasting only a few hours. The U.S. Lab began supporting research investigations in March 2001, and has done so continuously since then.

Source: The Increment Scientist assisted by investigation payload planners at NASA/Marshall Space Flight Center.

Research Objectives Accommodated: Each investigation may have several objectives, experiments, or steps to be carried out during an increment. The percent successfully accommodated by the ISS is calculated for each investigation, then all investigations are averaged together to determine the per increment value and the value through Increment X. Only the performance of ISS in accommodating the investigation is measured. The metric does not include performance of the experiment hardware.

Source: ISS Research Accommodations list, maintained by the lead increment scientist.

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Research Objectives Accomplished: The percent of planned research objectives defined for each investigation that have been accommodated successfully by the ISS *and* performed successfully by the experiment hardware. The values for each investigation are averaged together to determine the research objectives accomplished during each increment and the cumulative objectives accomplished through Increment X.

Source: ISS Research Accomplishments and Failures list (hailed from “Accommodations” list), maintained by the lead increment scientist.

Crew-Tended Research Time: The cumulative hours that the ISS crew performs U.S.-sponsored research investigations, including time both within and outside of the normal workday.

Source: ‘Actual’ crew time is documented in the Summary Crew Tracking Matrix, provided by the Payload Operations Integration Center (POIC).

Number of Investigations Planned Per Increment: The number of U.S.-sponsored investigations planned 12 months in advance for an increment, including both new and continuing investigations occurring during that increment.

Source: ISS Research Accommodations list, maintained by the lead increment scientist.

Number of Investigations Initiated Per Increment: The number of U.S.-sponsored investigations actually carried out during an increment, at least partially, including both new and continuing investigations.

Source: ISS Research Accommodations list, maintained by the lead increment scientist.